

**Jennifer Orozco**

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**From:** Ropp, Matt <Matt.Ropp@kniferiver.com>  
**Sent:** Wednesday, March 9, 2022 1:13 PM  
**To:** Plan; Will VanVactor  
**Subject:** Please add to the record for 217-21-000537-PLNG (CUP)  
**Attachments:** C Lidstone CV--.pdf

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MAR 09 2022

Crook County  
Community Development

This exhibit rebuts questions raised by Zimmerlee and Newton related to Chris Lidstone's credentials as qualified expert.

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# Christopher Lidstone PG

Principal/Geologist · 40 Years of Experience  
Fort Collins, Colorado

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Chris is the Principal/Owner of CDLidstone LLC, an engineering, geology and water resource consulting firm based out of Fort Collins, Colorado. His 40 years of professional experience covers a wide range of specialized, yet interrelated fields of study which include fluvial geomorphology, surface and ground water hydrology, river mechanics, municipal and private water supplies, geology, geochemistry, erosion and sedimentation, mine planning services, mined-land reclamation and environmental studies. His specialty experience has included hydraulic studies and river stabilization, river restoration, bioengineering, preparation of wetland designs, reclamation of disturbed lands, evaluation and mitigation of geochemical problems in both the natural and man-made environments. Over the last 40 years, Chris has been responsible for environmental and water resources projects on large and small rivers, natural and man-made pools and embayments, municipal water and wastewater projects, complex construction and land reclamation projects, watershed planning studies and land development projects.

Chris's expertise in water resources planning has made him familiar with federal, state and county permitting procedures and regulations. He has completed projects for municipal, federal, and state agencies as well as private clients including the mining industry. He has provided expert witness testimony in civil court, federal district court, and at the county level.

## EDUCATION

BA, Geological Sciences and Classics, Cornell University, Ithaca, New York, 1978  
MS, Fluvial Geomorphology, Colorado State University, Fort Collins, Colorado, 1981

## REGISTRATIONS

Professional Geologist, State of Wyoming  
Certified Professional Geologist, American Institute of Professional Geologists

## PROJECT EXPERIENCE

### Hydraulic and Hydrologic Studies

**Idaho Power Snake River Water Supply Analysis, Idaho.** As project manager and principal geologist, Chris directed an investigation of both in-channel and shoreline alternatives to develop a cooling water supply (500 gpm to 1400 gpm) for the Idaho Power Company. The Langley Gulch project was located on a portion of Snake River, which forms the state line between Idaho and Oregon and required a hydrologic, hydraulic, and geomorphic evaluation of the Snake River and its adjacent floodplain.

**Coldwater River Channel Stability Evaluation, Mississippi.** Chris was responsible for the field data collection, geomorphic studies, watershed evaluation, channel stability and sediment yield analysis for nine principal rivers within the Coldwater River Watershed. The area had been adversely impacted by a 1940-1960's Corps of Engineers flood relief project, which included channelization, diking, construction of levees among other items. The reconnaissance level evaluation identified problematical reaches, performed hydrologic and hydraulic modeling and prepared design alternatives to stabilize the river system.

**Napa River Flood Relief Design Project, California.** Chris was responsible for the geomorphic analysis, watershed evaluation and sediment yield analysis for the hydraulic modeling and evaluation of design alternatives for the proposed stabilization and flood relief project along the Napa River near Napa, California. The design evaluation included the review of Corps of Engineers hydrology, hydraulics, and data collection program. Reassessed and remodeled the channel hydraulics to ensure a successful final design.

### Geochemistry, Recreational Pools and Water Quality Evaluation

Chris is well versed in geochemistry, water quality and adverse quality discharge issues throughout the United States. His geochemical studies have included salt and phosphate loading to both surface and groundwater systems, kinetics and thermodynamics of geothermal systems, and long-term water quality

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changes for both hard rock and uranium-mined aqueous systems. Acid mine drainage mitigation and wetland designs have been completed for coal, uranium, bentonite, copper, and gold mines. He has testified on the impacts of salt loading to perennial, intermittent and ephemeral streams in Wyoming.

Work completed for the Wyoming State Parks and Historic Sites included an evaluation of the geothermal source, Big Spring and its distribution to several concessionaires to include both natural and traditional swimming pools, steam caves, water slides. The work which consisted of several phases included addressing the disposition of a declining water supply among competing concessionaires, water treatment, heat exchange, filtration and spent water discharge. Conveyance, air relief, precipitation and bacteria development were all issues addressed.

Chris completed a similar study for the Shoshone Business Council at Chief Washakie Hot Spring Recreational Pools. Water temperature, water treatment, heat exchange, source, supply, and delivery were addressed. He is familiar with swimming pool and water treatment regulations and has completed water and wastewater treatment in several western states. He has completed unsaturated flow studies for landfills, tailings waste disposal projects, septic and leach fields as well as wastewater lagoons throughout the western United States.

## Mining

PT Bukit Asam, Indonesia. Retained as an advisor to the Indonesian Government to achieve compliance with ISO 14000 international environmental standards for the state-owned coal industry. Responsible for assessment of environmental impacts associated with several open cast mines and in particular addressed hydrology, sediment transport, destruction of critical rain forest habitat, topsoil, and mine land reclamation issues at the mine sites. Over the course of the work, surface water contamination associated with mine wastes, unreclaimed spoils and acid drainage were addressed. Developed a reclamation program at each of the mines and worked with mine staff on an interim stabilization program and final hydrologic design.

**Cameco, Wyoming.** Chris was the project manager for the permitting and licensing efforts for several In-Situ Recovery (ISR) uranium mines in Wyoming including Smith Ranch, North Butte, Gas Hills, Reynolds Ranch and Ruby Ranch. The ISR process required extensive hydrogeologic studies to ensure a safe and environmentally sound uranium recovery and aquifer restoration. The design of processing facilities, evaporation ponds, channel diversions were part of this licensing effort.

**Bonanza Mining, Oregon.** He has served as the lead consulting geologist on a gold mine in the Wallowa Mountains in eastern Oregon. He is responsible for mine permitting, hydrologic control, pit planning, evaluation of highwall stability, characterization of overburden and waste rock, construction of mining diversions and wastewater treatment. He developed a dewatering plan and addressed mine water discharge issues along Pine Creek, tributary to the Snake River.

**Sheep Mountain, Wyoming.** He was the project manager and responsible for mine planning, baseline hydrology, operational and post closure hydrology, and hydraulic design for the Sheep Mountain Uranium Mine NRC Licensing project near Jeffrey City. He addressed geomorphic design for the heap leach cap, post closure hydrology and hydraulics. Surface water diversions were an integral part of the final designs. Stratigraphic and material characterization was incorporated into the mine pit and haul road planning. A ground water model was used to address dewatering of the underground mine workings.

**Helgeson Quarry, Minnesota.** Chris was responsible for the engineering design, environmental and land use approval process for a granite quarry near Sauk Rapids, MN. He testified at a land use hearing on the proposed quarrying operation, blasting plan, dewatering issues and materials handling. The quarry was approved in Benton County land use hearing. He continues to work on quarry expansion, pit design, overburden stripping and the processing of materials.

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## Groundwater

**Municipal Water Supply Projects, Colorado, Oregon, Wyoming.** As Principal Geologist, Chris has led water supply investigations for municipalities, water supply and delivery entities as well as the federal government. Examples of his work include a Tensleep Aquifer completion for the Shoshone Utilities Organization (Eastern Shoshone Tribe, WY), Madison Aquifer Completion for the Washakie Rural Water District (WY), Wasatch Aquifer completions (CO, WY), Battle Springs Aquifer completion for the Town of Bairoil (WY). In addition to these deeper well completions, he has been responsible for numerous Alluvial Aquifer completions for the USFS (CO), Squaw Creek Subdivision (WY), Town of Dixon (WY), Town of Baggs (WY), Laramie County School District (WY), City of Greeley (CO) and the Tolo Subdivision (OR). His groundwater studies and hydrogeologic evaluations have been completed throughout the United States.

**Groundwater Modeling and Well Interference.** As Principal Geologist, Chris has completed groundwater impact assessments to address the cumulative hydrologic impact of mining on an aquifer, evaluated well field spacing and addressed ground water impacts at rock quarries, coal, trona and uranium ISR mines as well as sand and gravel sources. Groundwater inflow to both surface and underground mines has been addressed. Impact of injection on confining beds has been an important aspect of his in-situ recovery work. He is adept at groundwater and geochemical modeling including the use of PLASM, MODFLOW, WATEQF, PHREEQE and MINTEQA2.

**Porosity Storage and Aquifer Storage and Recovery.** As Principal Geologist, Chris has completed evaluations of groundwater reinjection through both Porosity Storage as well as Aquifer Storage and Recovery (ASR).

## Fluvial Geomorphology

**General Watershed Planning and Analysis Studies, Nationwide.** Principal geomorphologist and responsible for watershed studies for Wind Big Horn Basin (Wyoming), Clackamas River Basin (Oregon), Gooseberry Irrigators (Wyoming), Fossil Creek, (Colorado), Rio Grande (Colorado and New Mexico), Tippecanoe River/Shaffer Lake (Indiana), Rio Grande Basin (Colorado), Alamosa Creek (Colorado), Provo River (Utah), Willamette River and Rogue River (Oregon).

**Apalachicola River Geomorphic Studies, Florida.** As Project Manager and Principal Geologist, Chris prepared the geomorphic, hydraulic, and sediment transport evaluation of the effects of dredging on the stability of the Apalachicola River in northwest Florida. Environmental issues related to the habitat of migratory sea bass, the local oyster population, alligators, and several endangered plants within the riparian zone were addressed as part of the project. Represented as the third-party independent expert on the three states (Alabama, Florida, Georgia, and the Corps of Engineers) ACF compact negotiation.

**Monroe Creek, Idaho.** As principal scientist Chris was responsible for the hydraulic and geomorphic analysis of the Monroe Creek stream relocation project in Idaho. The geomorphic analysis involved a determination of potential stream migration and an assessment of channel bed and bank stability. Preliminary designs addressed the construction of a new bridge crossing, widening of a state highway, relocation of the creek and construction of a bike path.

**Little Snake River, Wyoming and Colorado.** As principal geomorphologist and project manager, Chris was responsible for the evaluation, design, and construction of a replacement infiltration gallery for the Town of Baggs, Wyoming. Geomorphic analysis found that the river reach in the vicinity of the municipal intake was unstable and prone to both bank erosion and a channel cutoff. The extreme rate of fine sedimentation had adversely affected the previous infiltration gallery production and the potential cutoff had an opportunity to bypass any proposed intake solution. Provided the lead analysis in both siting and design solutions to complete a replacement infiltration gallery.

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## Stream and River Restoration

**Little Medicine Bow River Restoration Project, Wyoming.** As Project Manager and Principal Geologist, Chris directed the relocation and restoration of 3.5 miles of the Little Medicine Bow River. The pre-existing condition of the river was an unstable surface diversion that resulted in the death of two children. Project manager responsible for the geomorphic, hydraulic and sediment transport design of a compound channel and integrated floodplain system. Design analysis and final construction plans included selective handling of the mine wastes within the floodplain areas, determination of the final ground water and surface water interaction, and water balance of the river, floodplain, wetland, and final lake system. The \$4.5M restoration project won the OSM Reclamation Project of the Year Award.

**Yampa River Restoration Project, Colorado.** As Project Manager and Principal Geologist Chris was responsible for the completion of a geomorphic analysis, hydraulic and sediment transport design, final plans and specifications for Lafarge West, Inc. The project involved a negotiation between several landowners, the State of Colorado, Routt County, EPA and the Corps of Engineers to mitigate for wetland disturbance due to sand and gravel mining adjacent to the Yampa River near Steamboat Springs, Colorado. The 3,000-foot reach of river was radically disturbed and highly avulsive. The project has resulted in the stabilization of this reach of stream, enhanced fisheries and has received reclamation awards from the Colorado Department of Mines and Geology.

**Alamosa River Restoration Project, Colorado.** Project manager and principal geomorphologist on the six phase Alamosa River Restoration project. The project involved a watershed-wide analysis of current trends of system instability and a detailed study of over 5 miles of the Alamosa River on private lands within Conejos County, Colorado. The project team developed channel restoration alternatives for each reach and worked with Stakeholders on each alternative. Final construction met the objectives of plan form and profile stability, riparian improvements, habitat enhancement, water quality and water quantity objectives. Several of the reaches involved irrigation diversions, headgates, wasteways, road crossings and specific livestock related watering and stream crossings issues.

**Rogue River Restoration Project, Oregon.** Project manager and responsible for the geomorphic, hydraulic and sediment transport assessment of the Rogue River near Medford, Oregon. The hydraulic evaluation included two-dimensional modeling of multiple flow splits at 56,000 cfs. Model verification included the January 1997 record peak flood event. The project was built in 2002-2004 utilizing \$750,000 grant money from the Oregon Watershed Enhancement Board and match funding from Oregon DOT and private sources. Final design incorporated a combination of hard engineering, geomorphic trend analysis and biotechnical slope protection.

## PUBLICATIONS

Lidstone, Christopher D. Abby Korte. Water and Sediment Control Systems. (Chapter 16.4) in SME Mining Engineering Handbook, Third Edition, ed. Peter Darling, Society for Mining, Metallurgy and Exploration, Inc., Littleton CO., 2011.

Lidstone, Christopher D. Applied Geomorphology: Hydrologic Design Considerations to the Stabilization and Reclamation of Mining Disturbed Lands. Keynote Presentation. OSM Conference, National Interactive Forum on Geomorphic Reclamation. Farmington, NM. September 12-14, 2006.

Wampler, P., E. Schnitzer, D. Cramer, C. Lidstone. A Meander Cutoff into a Gravel Extraction Pond, Clackamas River, Oregon: Instream and Floodplain Mining Implications. Paper presented at the 2006 SME Annual Meeting, St. Louis, Missouri, 2006.

Lidstone, C.D., M. Pole. In-Stream Mining: The Trial and Tribulations of the Federal Permitting Process: A Case Study: Umpqua River Navigation. Paper presented at the 2006 SME Annual Meeting, St. Louis, Missouri, 2006.

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Ferris, F.K., C.D. Lidstone, C.M. Jones. Small Drainage Waterway Construction. Handbook of Western Reclamation Techniques, F.K. Ferris, ed., USDI Office of Surface Mining, Washington, D.C., 1996, pp. 11-67 - 74.

Lidstone, C.D., C.M. Jones. Hillslope Shaping and Morphology. Handbook of Western Reclamation Techniques, F.K. Ferris, ed., USDI Office of Surface Mining, Washington, D.C., 1996, pp. 111-3 - 12.

Jones, C.M., C.D. Lidstone. Drop Structures. Handbook of Western Reclamation Techniques, F.K. Ferris, ed., USDI Office of Surface Mining, Washington, D.C., 1996, pp. 11-21 - 32.

Lidstone, C.D., C.M. Jones. Hydrologic Considerations in the Design of Wetlands. Paper presented at the 15th Annual Abandoned Mined Land Conference, Jackson, Wyoming, 1993.

Lidstone, C.D. Design Concepts in Hillslope Morphology. Paper presented at the 13th Annual Abandoned Mined Land Conference, Lake Ozark, Missouri, 1991.

Lidstone, C.D., B.A. Anderson. Considerations in the Design of Erosionally Stable channels on Reclaimed Lands. Paper presented at the Evolution of Abandoned Mine Land Technologies Symposium in Riverton, Wyoming, 1989.

Lidstone, C.D. Stream Channel and Wetland Reconstruction Techniques. Paper presented at the Eighth Annual Meeting of the Society of Wetland Scientists, Seattle, Washington, 1987.

Lidstone, C.D., P.M. Schmittdeil. Geomorphology and Depth of Potential Downcutting, Green River Basin, Wyoming. Open-file report, Wyoming Department of Environmental Quality, Land Quality Division, Cheyenne, Wyoming, 1984.

Lidstone, C.D. Stream Channel Reconstruction and Drainage Basin Stability. Technical paper presented at the AIME/GAGMO (Gillette Area Groundwater Monitoring Organization) Symposium, Gillette, Wyoming, 1982.

Lidstone, C.D. Geomorphic and Hydraulic Controls Associated with the Development of Alluvial Placer Deposits. Technical paper presented to the USGS Branch of Exploration Research, Lakewood, Colorado, 1981.

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His work expertise addresses both ground water and surface water studies including water supply, water development, erosion and sedimentation, flood control, geomorphic stability, geochemistry and water quality studies. His geologic studies have included aggregate, gold, silver, trona, copper, coal and uranium. Operating as CDLidstone LLC Chris provides consulting and expert witness services to multiple clients and individuals including not only members of the legal profession but professional engineers, professional geologists, hydrologists and construction managers. He serves as the Town Engineer for several municipalities in Wyoming and addresses water supply, distribution, storage and water treatment. His portfolio includes extensive work for the mining industry, as well as environmental projects for not only state and federal government agencies, but also several NGO's.

## EDUCATION

Department of Earth Resources, Colorado State University, Fort Collins, Colorado. Master of Science, Geomorphology, received in May 1981. Thesis entitled "The Development and Distribution of Alluvial Placer Deposits."

College of Arts and Sciences, Cornell University, Ithaca, New York. Bachelor of Arts received in January 1978. Double major in Geological Sciences and Classics.

High School - St. Mark's School, Southborough, Massachusetts, June 1973.

## WORK EXPERIENCE

January 2022 to Present. Fort Collins, Colorado. Principal and Member, CDLidstone LLC Engineering, Geology and Water Resource Consulting. My responsibilities include technical lead and consultation to my municipal, federal, state, and private clients while addressing water resources, geochemistry, and environmental issues. My administrative work includes management of subcontractors and technical support in geology, hydrology, ground water studies, geomorphology, and environmental studies

January 2021 to January 2022. Fort Collins, Colorado. Regional Manager and Principal, Stantec Consulting Services, Inc. My responsibilities included management of multiple offices in Rocky Mountain Region, technical direction in the firm's civil engineering, hydrogeology, geology, and water resources related projects. My direct responsibilities included project management and technical support in geology, hydrology, ground water studies, geomorphology, and environmental studies.

July 2015 to January 2021. Fort Collins, Colorado. Regional Manager and Principal, Wenck Associates, Inc. My responsibilities included management of multiple offices in Rocky Mountain Region, marketing, technical direction in the firm's civil engineering, hydrogeology, geology, and water resources related projects. My direct responsibilities include administrative support of professional staff, management of multiple projects, and technical support in geology, hydrology, ground water studies, geomorphology, and environmental studies.

October 1998 to July 2015. Fort Collins, Colorado. President, Lidstone and Associates, Inc., Engineering, Geology and Water Resource Consulting. My responsibilities included technical direction and environmental support in the firm's civil engineering, hydrogeology, geology, and water resources related projects. My direct responsibilities included management of subcontractors, management of firm's construction related services, project administration and budgets, and technical support in geology, hydrology, ground water studies, geomorphology, and environmental studies.

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July 1986 to October 1998. Fort Collins, Colorado. President, Lidstone & Anderson, Inc. As a principal of the firm, I was responsible for the technical direction and environmental support in the firm's civil engineering, geological, and water resources related projects. My direct responsibilities included project management and administration, management of construction related services and technical support in geology, hydrology, hydrogeology, geomorphology, and environmental studies.

January 1984 to July 1986. Fort Collins, Colorado. Employed by Simons, Li and Associates, Inc., as a geohydrologist. Responsible for geomorphology, geohydrology, geochemistry, mining hydrology, and sedimentology analyses for the firm's engineering and design projects.

October 1981 to January 1984. Cheyenne, Wyoming. Employed by the Wyoming Department of Environmental Quality as a hydrologist. My duties included review of mine permit applications, environmental research, development of policy and regulatory matters. While with the State of Wyoming, my specialties included geology, hydrology, long-term stability of landforms, ground water contamination, mill tailings seepage, stream channel stability, and post-mining water quality. Testified as an expert witness in ground water modeling study.

July-September 1980. Rock Springs, Wyoming. Employed by Rocky Mountain Energy Company, Broomfield, Colorado, to map and evaluate oil shale reserves on Union Pacific Railroad property in Green River Basin. Responsibilities included estimating reserves and recommending sites for a core drilling program.

May-October 1979. Iron Springs Divide near Craig, Colorado; Haggarty Creek near Encampment, Wyoming; and Engineering Research Center, Fort Collins, Colorado. Field and laboratory investigation for Master's Thesis supported by the U.S. Geological Survey and the U.S. Army Research Office (principal investigator, Dr. Stanley A. Schumm). Thesis, which is on file with Colorado State University, characterized the gross geomorphic controls involved in the development of alluvial placers.

June-August 1977. Alexander Archipelago, southeast Alaska. Retained by Derry, Michener and Booth, Toronto, Ontario, to evaluate the mineral potential of the Tlingit and Haida Native Withdrawal Lands in southeastern Alaska (approximately 800 square miles). This work included an evaluation of the geology of known deposits, geochemical sampling, evaluation and interpretation of diamond drill core, and reconnaissance geological survey.

June-September 1976. Elkhead Mountains near Slater, Colorado. Field and laboratory investigations for Bachelor's thesis financed by Gulf Mineral Resources Co., Denver, Colorado. Emphasis was placed on the uranium potential of the Brown's Park Sandstone and the effect of the Elkhead Volcanics on the migration of uranium-bearing solutions through the sandstone and basal conglomerate. Thesis on file with the Department of Geological Sciences, Cornell University.



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## TEACHING EXPERIENCE

Winter Spring, 2020, Affiliate, Colorado State University, Teaching seminar within the Department of Geosciences, "Business of Geosciences": GEOL492/692.

September 1978-May 1980. Colorado State University. Graduate Research Assistant under Dr. Stanley A. Schumm. During each spring semester I also served as a teaching assistant (including periodic lectures) and lab instructor for an upper-level undergraduate course in geomorphology.

January-May 1977. Cornell University. Teaching assistant (including weekly lectures) and lab instructor for Dr. Jack Bird of Cornell University, Department of Geological Sciences.

## ACTIVITIES AND HONORS

- Professional Geologist, Wyoming (PG #2259)
- American Institute of Professional Geologists (CPG #7285)
- Warner College of Natural Resources Honor Alumnus, 2021 Distinguished Alumni Awards
- Lecturer, Colorado State University (2008-2021)-various classes in mining, hydrogeology, NEPA, professional skills among other.
- Member (2009) In-Channel Advisory Committee on Gravel Bar Removal, OR.
- Keynote Speaker, 2006. OSM Conference, National Interactive Forum on Geomorphic Reclamation. Farmington, NM.
- Society of Mining Engineers, Hydrology Unit Committee Chair, 1999.
- Chairman, 1997-1999. Society for Mining, Metallurgy, and Exploration, Inc., Hydrology Subcommittee.
- Adviser, 1996-1997. Oregon Department of Geology and Mineral Industries (Albany, OR), adviser for Flood Plain Mining Guidelines.
- Speaker and Panelist, 1994. Utah Commission on Regulatory Reform (Salt Lake City, UT).
- Speaker, 1991. National Abandoned Mined Land Conference (Lake Ozark, MO).
- Speaker, 1989. National Abandoned Mined Land Conference (Riverton, Wyoming).
- Speaker, 1988. University of Kentucky Symposium on Reclamation of Disturbed and Mined Lands (Reno, NV).
- Speaker, 1987. Society of Wetland Scientists (Seattle, WA).
- Speaker, 1984. American Institute of Mining Engineers (Gillette, WY).
- Speaker and Panelist, 1981. American Bar Association Annual Meeting Program on Natural Resources (New Orleans, LA).
- Speaker, 1981. USGS Branch of Exploration Research (Lakewood, CO) on Placer Deposits.
- Sigma Gamma Epsilon (1976-77), honor society (earth sciences).
- Recipient of the National Exploration Award (1973) for high school students distinguished in the physical sciences.

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## PUBLICATIONS

- Lidstone, Christopher D. and Abby Korte, 2011. "Water and Sediment Control Systems" (Chapter 16.4) in SME Mining Engineering Handbook, Third Edition, ed. Peter Darling, Society for Mining, Metallurgy and Exploration, Inc., Littleton CO.
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- Ferris, F.K., C.D. Lidstone, and C.M. Jones, 1996. "Small Drainage Waterway Construction" in Handbook of Western Reclamation Techniques, F.K. Ferris, ed., USDI Office of Surface Mining, Washington, D.C., pp. 11-67 - 74.
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- Lidstone, C.D., and P.M. Schmittdeil, 1984. "Geomorphology and Depth of Potential Downcutting, Green River Basin, Wyoming." Open-file report, Wyoming Department of Environmental Quality, Land Quality Division, Cheyenne, Wyoming.
- Lidstone, C.D., 1982. "Stream Channel Reconstruction and Drainage Basin Stability." Technical paper presented at the AIME/GAGMO (Gillette Area Groundwater Monitoring Organization) Symposium, Gillette, Wyoming.
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